

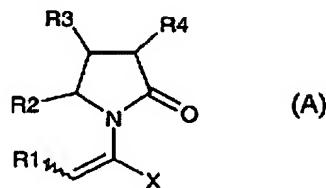
Amendments to the Claims:

This listing of claims will replace all prior versions, and listing, of claims in the application.

Listing of Claims:

1. (Original) A catalyst comprising a chiral transition metal-(1, 2-bis (2,5-dialkylphospholano) benzene) complex immobilised on a zeolitic support having
 - a molar ratio $\text{SiO}_2/\text{Me}_2\text{O}_3$ of between 5 and 50 wherein Me designates an element of valence 3 and
 - an external surface area, as developed by pores having a mean diameter higher than 0.8 nm, of at least $90 \text{ m}^2/\text{g}$.
2. (Original) The catalyst as claimed in claim 1, having an ultra-micropore volume of at least $0.08 \text{ cm}^3/\text{g}$.
3. (Currently amended) The catalyst as claimed in claims 1-~~or~~~~2~~, wherein the support is a BETA topology zeolite.
4. (Currently amended) The catalyst as claimed in ~~any one of~~ claims 1-~~to~~~~3~~, wherein the zeolitic support has a molar ratio $\text{SiO}_2/\text{Me}_2\text{O}_3$ of at most 30.
5. (Currently amended) The catalyst as claimed in ~~any one of~~ claims 1-~~to~~~~4~~, wherein Me is Al.
6. (Currently amended) The catalyst as claimed in ~~any one of~~ claims 1-~~to~~~~5~~, wherein the transition metal is Rh.
7. (Currently amended) A Pprocess of hydrogenation of a prochiral substrates comprising contacting the prochiral substrate with a hydrogenating agent and a catalyst according to any one of claims 1-~~to~~~~6~~.
8. (Currently amended) The Pprocess as claimed in claim 7, wherein the substrates are functionalised olefines.

9. (Currently amended) The Pprocess as claimed in claim 8, wherein the substrate is a compound of general formula (A)



wherein

X is -CONR⁵R⁶, -COOR⁷, -CoR⁸ or -CN;

R¹ is hydrogen, alkyl, aryl, heterocycloalkyl, heteroaryl, halogen, nitro, cyano, acyl, ester, amido or carboxy.

R², R³, R⁴ are the same or different and each is, independently, hydrogen, halogen, hydroxy, amino, nitro, cyano, acyl, acyloxy, sulfonyl, sulfinyl, alkylamino, carboxy, ester, ether, amido, sulfonic acid, sulfonamide, alkylthio, arylthio, alkyl, alkoxy, oxyester, oxyamido, aryl, arylamino, aryloxy, heterocycloalkyl, heteroaryl or alkenyl;

R⁵ and R⁶ are the same or different and each is, independently, hydrogen, hydroxy, alkyl, aryl, heterocycloalkyl, heteroaryl, alkoxy, aryloxy; R⁷ is hydrogen, alkyl, aryl, heterocycloalkyl or heteroacyl; and

R⁸ is hydrogen, hydroxy, thiol, halogen, alkyl, aryl, heterocycloalkyl, heteroaryl, alkylthio, arylthio.

10. (Currently amended) The Pprocess as claimed in claim 9, wherein the substrate is methyl(Z, E)-2-(2 oxotetrahydro-1H-1-pyrrolyl)-2-butenoate.

11. (Currently amended) The Pprocess as claimed in any one of claims 7 to 10 carried out in a solvent selected from ethers, alcohols and their mixtures.

12. (Currently amended) The Pprocess as claimed in claim 11, wherein the solvent is diisopropyl ether or its mixture with methanol.